DW Series

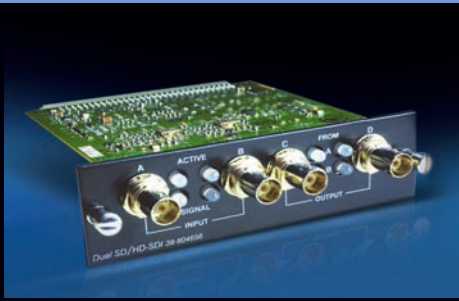## Highest quality images in a native widescreen format

The Christie DW Series offers exceptional image quality and detail in a choice of four compact packages for pure presentation power. The smallest, high-performance 3-chip DLP® products on the market, the Christie DW Series offers a range of 4250 to 7500 ANSI lumens delivered in a native widescreen format – the pinnacle of image color accuracy and adjustability in an easy to use, flexible package.

The Christie DW Series features 1280 x 720 native resolution and a variable contrast ratio of 1600-2000:1 for crisp, detailed images.

With DLP® technology, high-quality optics and 10-bit image processing, the Christie DW Series is ideal for widescreen scope, high resolution and exceptional image quality for big, bright displays. Increased color depth in the Christie DW4Kc/DW6Kc models offer film-like color reproduction for stunning brilliance.

Best price-performance on the market, most reliability, lowest cost of ownership, best warranties available and renowned customer service all add up to peace of mind with Christie.

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Display technology

The Christie DW Series provides the best 1280 x 720 image quality in 3-chip DLP® projection available. Low maintenance, highly reliable DLP® technology delivers high brightness and unsurpassed color, brightness uniformity and control capabilities in a native widescreen format.

Image quality

3-chip DLP® products now come standard with dust sealed DMD's to prevent contaminants from getting on imaging surfaces. This ensures a crisp, dust-free, high-brightness, high-resolution image, with the added assurance of less maintenance in harsh environments. The 3-chip 720 engines are driven by Xenon illumination and deliver superior image quality, repeatability of colors and the ability to edgeblend and tile images – whether multiple projectors on a single screen, or multiple screen displays. The enhanced optical system in the Christie DW4Kc/DW6Kc models allows for a film-like color experience.

Image processing

With 10-bit image processing, the Christie DW Series offers high bandwidth signal processing. The high bandwidth supports additional functionality such as Picture-in-Picture and seamless switching between sources.

Serviceability

Operation and maintenance of the Christie DW Series is easy as well. Field-alignable DMDs and a fully dust sealed DMD system put full control in the hands of the user. Replacement lamp costs are low and Christie offers the best warranties on the market – two years parts and labor (excluding the lamp).
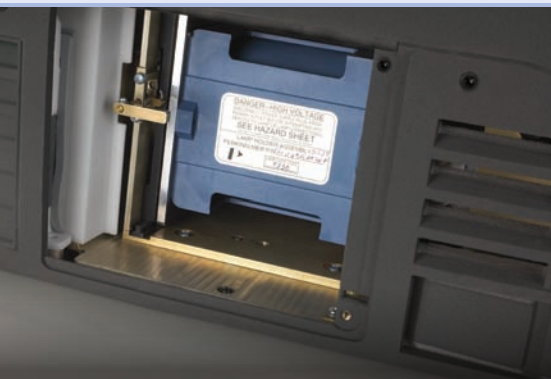
Ease of use

A user-friendly Graphic User Interface makes operation and set-up of the entire Christie DW Series uncomplicated. The GUI enables full and easy control of the projector. Multiple control options let the user choose what's best for their application – built-in, IR and wired remote keypad; RS-422 or RS-232 control; or through ChristieNET™ via the Ethernet port. Motorized lens functions provide power focus, zoom, horizontal and vertical offset functions all at the touch of a button. Auto set-up recognizes sources and sets up correct brightness, contrast and position.

▼ With either 1kW or 1.2kW, the Christie DW Series features user-replaceable, pre-aligned Xenon lamp modules with adjustable lamp power for lower brightness. The stable color temperature over the course of the lamp life and the power range provides the best lamp technology for color matching across multiple screens.

▼ The Christie DW Series features an extremely high contrast ratio of 1600-2000:1 full field (400:1 min ANSI contrast ratio) with the motorized IRIS, users can adjust for high contrast ratio and better black levels, for any given application.

▼ An optional suite of specifically-designed lenses includes both fixed and zoom lenses ranging from 0.8:1 through to a 5.0-8.0:1 zoom and features a durable lens mount with motorized horizontal and vertical offset. With built-in light shutter, internal variable contrast aperture and quick lens insertion, the Christie DW Series is easy to work with.

▼ The Christie DW Series offers a native widescreen format combined with high resolution, medium-brightness and a compact package – for applications where image quality, color and clarity are paramount. When the images need to speak volumes, the Christie DW Series delivers high brightness, excellent color and detailed displays.

Deluxe Sound & Picture features superior audiovisual facilities and an award-winning staff, capable of accommodating post-production of feature films as well as episodic television. The studio captures, edits and prints in HD and then screens the dailies.
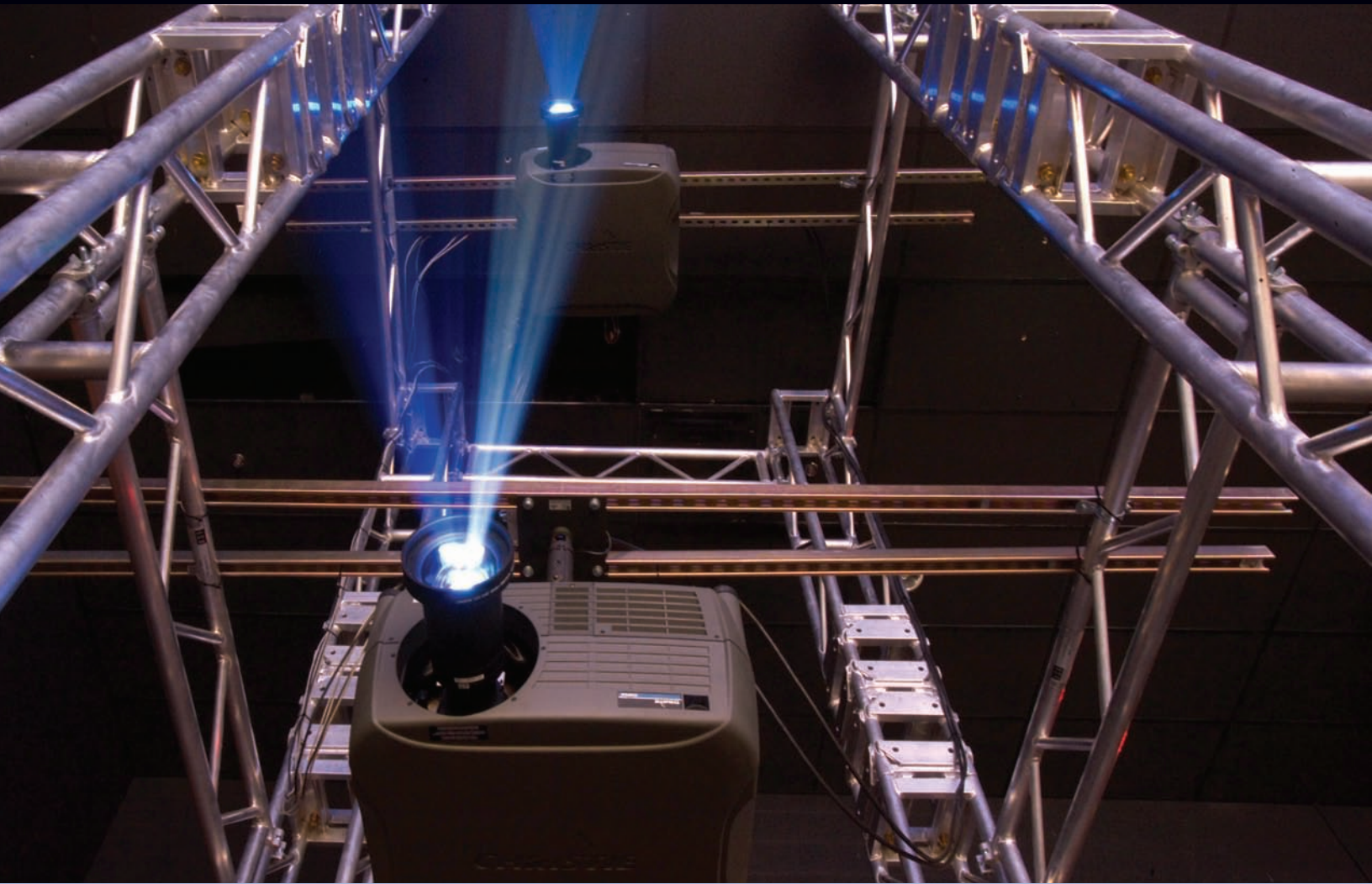

▶ The Christie DW Series features the widest source compatibility and has built-in Ethernet networking for full compatibility with ChristieNET™.

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▼ **Cornerstone Christian Faith Church, Chandler, AZ**
Cornerstone Christian Fellowship Church was started when Pastor Linn Winters and Pastor Brent Richardson began to talk about the possibility of planting a church in Chandler, Arizona. They desired to answer to those who wanted contemporary worship, and be exciting for those who had lost interest in church. The dream was to incorporate solid Bible teaching with dynamic music and practical sermons.

Clark ProMedia, Atlanta, GA, worked with Cornerstone to bring their worship services to life and increase attendance. With 7500 ANSI lumens and a native 16:9 HD format, the Christie DW8K offers exceptional image quality and detail for widescreen scope – perfect to fill the screens of the 1500-seat auditorium. Four stacked Christie DW8Ks were edge-blended together with four Vista Systems Spyders on a custom 36' x 19' center screen from Stewart. Two 16' x 9' side screens further supported the main stage with two more Christie DW8Ks.

Inputs

The Christie DW Series offers installation flexibility and compatibility with any data, video or HDTV source in use today, from VGA to QXGA. The multi-standard video decoder and horizontal and vertical scaling of all inputs gives you the ability to connect to virtually anything:

- RGBHV/YPbPr via 5 BNC
- DVI-I for digital/analog RGB/YPbPr (HDCP)
- One composite video, one S-Video
- Two optional slots for analog/digital modules
- 2 RS-232 ports, 1 RS-422 port and 1 GPIO port
- On-board ChristieNET™ connectivity (RJ45)
- Built-in backlit keypad and IR remote control

Standard accessories

- IR keypad (w/batteries)
- Line cord
- User manual

Optional accessories

- Fixed lenses: 0.8:1, 1.32:1
- Zoom lenses: 1.6-2.0:1, 2.0-2.7:1, 2.7-5.0:1, 5.0-8.0:1
- ChristieTWIST™ image warping module with enhanced edge-blending
- Dual SD/HD-SDI, DVI and legacy interface modules
- Wire remote control
- Remote IR sensor
- Ethernet, RS-232, RS-422 cables
- Service manual
- KoRE™ 10-bit librarian
- Lens adapter (for competitive lenses)

Competitive advantages

- Xenon lamp system – provides repeatability of photo-realistic colors and color-matching accuracy
- Highest brightness – over all competitors at 1280 x 720 resolution
- Highest contrast – 1600-2000:1 (via internal adjustable aperture)
- The enhanced optical system in the Christie DW4Kc/DW6Kc models allows for a film-like color experience.

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	DW4Kc	DW5K	DW6Kc	DW8K
Image				
brightness	• 4250 ANSI lumens @ 200 VAC [4675 center lumens @ 200 VAC] • 3700 ANSI lumens @ 110 VAC [3600 center lumens @ 110 VAC]	• 5300 ANSI lumens @ 200 VAC [5800 center lumens @ 200 VAC] • 4100 ANSI lumens @ 110 VAC [4500 center lumens @ 110 VAC]	• 5600 ANSI lumens @ 200 VAC [6160 center lumens @ 200 VAC]	• 7500 ANSI lumens @ 200 VAC [8250 center lumens @ 200 VAC]
contrast	• 1600-2000:1 full field • 400:1 min ANSI			
uniformity	• 90% brightness uniformity across the screen			
Display				
type	• 3-chip 0.8" DMD			
native resolution	• HD2 (1280 x 720)			
Lamp				
type	• 1kW CERMAX® Xenon pre-aligned lamp module		• 1.2kW CERMAX® Xenon pre-aligned lamp module	
life	• 1500 hours (typical) lifetime		• 1500 hours (typical) lifetime	
Input				
signals	• HDTV formats VGA through to QXGA (2048 x 1536) • Accepts all current HDTV/DTV formats • Multi-standard video decoder • Horizontal and vertical scaling, all inputs			
pixel clock	• 210 MHz			
scan rates	• 15 kHz to 120 kHz Horizontal • 23.97 Hz to 150 Hz Vertical			
Inputs, control and networking	• RGBHV/YPbPr via 5 BNC • DVI-I – digital/analog RGB/YPbPr (HDCP) • One composite video, one S-Video • Two option slots for analog/digital modules • 3 RS-232 ports and 1 RS-422 port • On-board ChristieNET™ connectivity (RJ45) • Built-in backlit keypad and IR remote control			
Optical system	• Dust sealed, 3-Chip DMD Light Engine • Motorized Horizontal and Vertical Lens Offset • Scheimpflug (tilt) Adjustment • Built-in Light Shutter • Tool-free Lens Insertion System			
Lenses				
fixed	• 0.8:1*, 1.32:1			
zoom	• 1.6-2.0:1, 2.0-2.7:1, 2.7-5.0:1, 5.0-8.0:1			
offsets	• +/- 160% Vertical • +/- 70% Horizontal • (* +/-110%V +/- 40%H)			
Accessories				
standard	• IR Keypad (w/batteries) • Line Cord • User Manual			
optional	• ChristieTWIST™ Image Warping and Edge-Blending module • Input modules – Dual SD/HD-SDI, DVI and legacy interface modules • Wired remote control and RS-422 • Remote IR sensor • Ethernet, RS-232, RS-422 cables • Service manual • KoRE™ 10-bit librarian • Lens adapter (for competitive lenses) • Stacker			
Enhanced feature sets	• LiteLOC™ • Film-like color reproduction with Kc models • Comprehensive Color Adjustment (CCA™) • Built-in Edge Blending • Menus in five languages • 50 Channel Memories • Auto Setup • Digital Keystone Correction			
Power requirements				
operating voltage	• 100 VAC to 240 VAC ± @ 50/60 Hz		• 200 VAC to 240 VAC ± @ 50/60 Hz	
operating current	• 10.4A @ 100V / 8A @ 200V		• 10A @ 200V	
power	• 1600W maximum		• 2000W maximum	
dissipation	• 5460 BTU/hr		• 6825 BTU/hr	
Dimensions				
size	• (L x W x H): 22.3 x 26.0 x 12.32" (566 x 660 x 313mm)			
volume	• 7722 in³			
weight	• 72 lb (32.1 kg)		• 75 lb (34 kg)	
shipping weight	• 115 lb (52 kg)		• 120 lb (54.4 kg)	
Operating environment	• Temperature: 40 to 95° F (5 to 35° C) • Humidity: 20 – 80% non-condensing			
Regulatory approvals	This product conforms to the following regulations related to product safety, environmental requirements and electromagnetic compatibility (EMC): • FCC Part 15, Subpart B Class A; CISPR22/EN55022; CISPR24/EN55024 • UL 60950-1 First Edition; CAN/CSA-C22.2 No 60950-1-03 First edition; • IEC60950-1:2001 • 2002/95/EC RoHS			
Warranty	• 2 years parts and labor (including light engine)			

Cornerstone Christian Faith Church, Chandler, AZ
Cornerstone presents cutting-edge, immersive graphics on three large screens during worship services featuring contemporary Christian rock music. The multi-sensory experience targets Cornerstone's 5,000 congregants and takes the worship experience from the oral or the visual to a true, fully-engaged multi-sensory experience with highly-dynamic video content," says Matt Card, Vice President of Client Development with Clark ProMedia, the project's consultant.

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